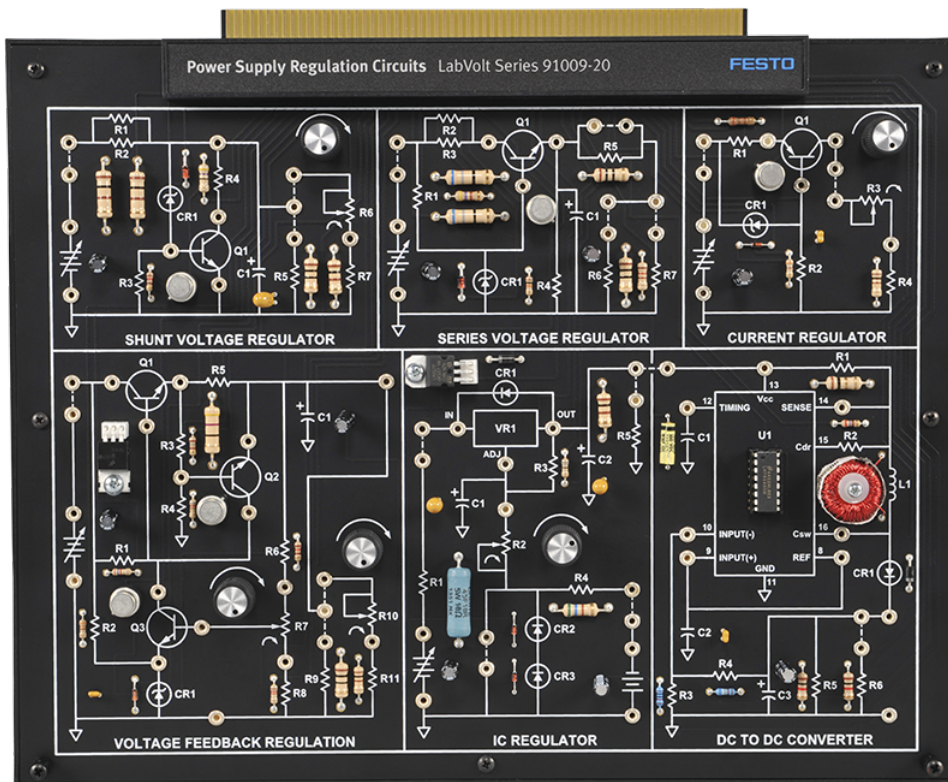


# Power Supply Regulation Circuits FACET Board 580973 (91009-20)

**FESTO**

LabVolt Series

Datasheet



Festo Didactic

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11/2024

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## General Description

The Power Supply Regulation Circuits module is used to study power supply regulation circuits in a hands-on learning environment.

Through the study of the following six circuit blocks, the trainee will gain the skills necessary to be able to successfully troubleshoot the following power supply circuit malfunctions:

- Shunt Voltage Regulator
- Series Voltage Regulator
- Current Regulator
- Voltage Feedback Regulation
- IC Regulation
- DC to DC Converter

## Topic Coverage

- Circuit Location and Identification and Power Supply Regulator Introduction
- Shunt and Series Regulators Operation, Line and Load Regulation
- Voltage Feedback Regulator Operation, Load Regulation
- Foldback Current Limiting Active Protection Circuit
- Current Regulator Operation, Line and Load Regulation
- Three-Pin IC Regulator Operation, Voltage Regulation, Current Regulation and Power Efficiency
- DC to DC Converter Operating Characteristics, Voltage Regulation and Efficiency
- Troubleshooting Basics and Troubleshooting Power Supply Regulation Circuits

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